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SJ Grant, JK Cavers - IEEE Transactions on Communications, 1998 - [ieeexplore.ieee.org](#)

... (11) Neglecting hypothesis-independent terms, the appropriate joint **detection metric** to be minimized is ... Evidently, the receiver weights each **antenna** signal ...

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[Complex space-time block codes for four Tx antennas](#)

O Tirkkonen, A Hottinen - IEEE Global Telecommunications Conference, 2000. ..., 2000 - [ieeexplore.ieee.org](#)

... from code matrix (8). Decoding of all these block codes is straight forward, for any number of receive **antennas**. A linear **detection metric** providing maximal ...

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... in conjunction with space-time codes provided that the number of transmit **antennas** is small. We also derive the maximum-likelihood **detection metric** in the ...

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... We first re- cast the ML **detection metric** of [3] into an elegant geometric form ... and Tse for obtaining the asymptotic capacity of the multiple-**antenna** channel at ...

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M Kiessling, J Speidel, N Geng, M Reinhardt - ... Conference on Communications, 2003. ICC'03, 2003 - [ieeexplore.ieee.org](#)

... The union bound of the SER for transmit **antenna** m (or subchannel m ... A. Characteristic Function of the **Detection Metric** We are using a characteristic function ...

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[Wide-angle scanning with reflector antennas: a new design technique](#)

PL Detweiler, KM Pasala - ... Aerospace and Electronics Conference, 2000. NAECON ..., 2000 - [ieeexplore.ieee.org](#)

... metric could be zero, and the goal value for the **detection metric** could be ... Figure 2 shows a typical hybrid **antenna** with a cylindrical reflector and planar feed ...

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[Reduced complexity multiple symbol differential detection of space-time block code](#)

P Tarasak, VK Bhargava - 2002 IEEE Wireless Communications and Networking ..., 2002 - [ieeexplore.ieee.org](#)

... to obtain CSI. Differential encoding/decoding has been a popular method when there is no CSI in a single-**antenna** sys- tem. In the ...

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[PDF] ► [Multiple-symbol detection of differential unitary space-time modulation in fast-fading ...](#)

B Bhukania, P Schniter - Proc. Conference on Information Sciences and ..., 2002 - [ece.osu.edu](#)

... unitary space-time modulation (DUST) can be seen as an extension of differential phase-shift keying (DPSK), commonly used in single **antenna** systems when the ...

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Detection of tones and pulses using a large, uncalibrated array

SW Ellingson - IEEE Antennas and Propagation Society International ..., 2003 - [ieeexplore.ieee.org](#)

... entire FOV, yet which can be processed together to achieve the sensitivity of a large, fixed-aperture **antenna**. ... 5. Compute a **detection metric** for each FFT bin. ...

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[PDF] ► Toward real-time SQM for WAAS: improved detection techniques

RE Phelts, T Walter, P Enge - Proceedings of the 16 th International Technical Meeting ..., 2003 - [waas.stanford.edu](#)

... flexible, quantitative approach to computing a highly-effective **detection metric**, whose detection ... at Camp Parks, California used a high-gain **antenna** to record ...

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[BOOK] Multi-**antenna** transceiver techniques for 3G and beyond

A Hottinen, O Tirkkonen, R Wichman - 2003 - [books.google.com](#)

... 4.4.1 Equivalent Channel Matrix 82 4.4.2 Maximum Likelihood **Detection Metric** 84 4.4 ... loop Methods 10 Closed-loop Methods: Selected Multi-**antenna** Extensions 209 ...

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D Reader - Proceedings of the IEEE International Conference on ..., 1996 - [Citeseer](#)

... 5.3.1 Approximate Blind Maximum Likelihood Sequence **Detection, Metric** ME3 84 Effect of Periodic Phase Rotation Upon the **Detection Metric** 109

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Systems and methods for selecting a cell in a communications network

YPE Wang - US Patent App. 09/859,535, 2001 - [Google Patents](#)

... the **detection metric** is greater than the detection threshold, then the mobile terminal 140 may select the frequency error estimate associated with the **antenna** ...

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[PDF] ► Iterative MAP receiver for interference suppression in SDM/OFDM systems

SY Park, CG Kang - IEEE VEHICULAR TECHNOLOGY CONFERENCE, 2002 - [wiselab.korea.ac.kr](#)

... through combination of the estimated covariance with the conventional MAP **detection metric**. ... so that each of P burst sets can be mapped into individual **antenna**. ...

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Maximum likelihood sequence detection using a pilot tone

BD Hart - IEEE Transactions on Vehicular Technology, 2000 - [ieeexplore.ieee.org](#)

... signal follows multiple paths to the receiver's **antenna**, along which ... The **detection metric** only requires knowledge of the channel's autocovariance and the ...

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Evaluation of novel multi-beam **antenna** configurations for TDMA (IS-136) systems

B Hagerman, KJ Molnar, BD Molnar - 1999 IEEE 49th Vehicular Technology Conference, 1999 - [ieeexplore.ieee.org](#)

... The **detection metric** for a receiver with K **antennas** is given by $K \sum_{k=1}^K$ The probability of the error event $\{i \rightarrow j\}$ is then denoted as $P_{i \rightarrow j} = P(i|K \dots$

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L PHILIP, MP KRISHNA - Proceedings of the IEEE 2000 National Aerospace and ..., 2000 - [IEEE Service Center](#)
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L Wang, Y Antia, J Dai - US Patent 6,622,006, 2003 - [Google Patents](#)

... 8 is a plot of a **detection metric** profile according to the present invention ... signal

with the predetermined signal strength or receive an **antenna** radiation spot ...

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[Multi-channel equalisation and interference cancellation for HF STANAG 4285 ...](#)

ES Warner, IK Proudler, Q Ltd - HF Radio Systems and Techniques, 2003. Ninth ..., 2003 - [ieeexplore.ieee.org](#)
... jointly in a least-squares method (8). Let the array have M **antennas** and the ... must
be positive, the term $y_d = cHXw$ can be used as a **detection metric**, where 0 ...

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...
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H Minn, DI Kim, VK Bhargava - IEEE Transactions on communications, 2002 - [ieeexplore.ieee.org](#)
... estimation can be performed independently for each transmit–receive **antenna** pair
by ... designed received SNR or by means of the sync **detection metric** such as ...

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[Method and apparatus for determining the rate and quality of received data in a variable ...](#)

W Zhao, RC Elliott, X Jin - US Patent 6,598,189, 2003 - [Google Patents](#)
... Within the receiving system, the symbols are received by an **antenna** 268 and ... exactly
one CRC T,-, then there is one error **detection metric**, CRC,-, indicating ...

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[Method and radio system for digital signal transmission](#)

A Hottinen, O Tirkkonen - US Patent App. 10/225,457, 2002 - [Google Patents](#)
... 1), (2) and (4)), possibly by restricting the number of **antennas**. Now denote [0087]
Using these markings, the maximum likelihood **detection metric** for the kth ...

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... length (/,) 48 3.7.3 Coherence time (TO) 48 3.7.4 Angle of arrival deviation (o0)
49 3.8 POWER SPECTRAL DENSITY 49 3.8.1 Case 1 (omni **antenna**) 50 3.8.2 Case ...

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